EXHIBIT EE

ETHICO N.INC.

P.O. BOX 151
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October 15, 1992

cc: B. Matlaga
J. McDivitt

A. Melveger

RDCF

Mark Cafone

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SEVEN YEAR DATA FOR TEN YEAR PROLENE™ STUDY: ERF 85-219

This report contains a summary of IR, IV, GPC, OM and SEM data supporting this study.

IR and IR Microspectroscopy (D.Burkley)

IR examinations were done for all explants at all sites to verify the suture identity for each explant. For all explanted sutures recovered from all 6 sites for every dog in this study, IR data showed each suture to be correctly identified.

IR microspectroscopy was used to examine cracked areas in ETHILON, Novafil and PROLENE™ explants. IR spectra obtained for cracked PROLENE specimens (Figure A) showed possible evidence of slight oxidation (a broadened weak absorbance at about 1650 cm-1). IR spectra obtained for cracked areas of ETHILON and Novafil did not differ from uncracked areas (Figures B and C), but expected IR absorbances for oxidation would be masked by the strong carbonyl absorbances normally observed for these sutures. Figures D and E show pictures of the areas examined by IR microspectroscopy for ETHILON and Novafil.

IV and GPC (E.Muse)

Gel Permeation Chromatography (GPC) was run on PROLENE sutures explanted from dogs after seven years. The GPC data was compared to data from a current 4/0 PROLENE suture. The results indicate that there was no significant difference in molecular weight between the 4/0 PROLENE control and the seven year explants.

The following PROLENE explant samples were analyzed:

Dog 1995 - site 3 (SR33853)
Dog 2007 - sites 1 and 6 (SR34003)
Dog 2008 - site 2 (SR34066)
Dog 2019 - sites 2 and 3 (SR34180)

The GPC analysis was run on the Waters 150C GPC at 140°C using 1,2,4 trichlorobenzene as a mobile phase with Waters GPC columns. The instrument was calibrated with polypropylene standards.

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Inherent Viscosity (IV) was determined on ETHILON $^{\mathbb{N}}$ and Novafil sutures explanted from dogs after seven years. The IV data $^{\mathbb{N}}$ was compared to IV data from one and two year explants. The following results were found:

- No significant differences were seen in IV values after one and two years.
- 2) Seven year IV values ranged from 75% to 93% of the one and two year IV values for ETHILON sutures.
- 3) Seven year IV values ranged from 75% to 90% of the one and two year values for Novafil.

The dog explant samples examined were from duplicate sites on four dogs for each time period (one, two and seven years). The IV data was determined using concentrations of 0.1 dl/g with HFIP as a solvent at $25\,^{\circ}\text{C}$.

OPTICAL MICROSCOPY and SCANNING ELECTRON MICROSCOPY (E.Lindemann)

Conclusions

- The 7 year in-vivo results generally substantiated the five year findings. They also closely correspond to the observations of explanted sutures from the dog that died prematurely after 6 years and 10.5 month implantation time.
- Degradation in PROLENE is still increasing and PVDF, even though a few cracks were found, is still by far the most surface resistant in- house made suture in terms of cracking.
- Of the eight explanted ETHILON sutures all showed heavy cracking and, in many cases, abrasion of the dyed surface layer. A decrease in the suture diameter was apparent in several cases.
- Cracks were not found in the seven Novafil explants. However a few longitudinal scratches probably due to mechanical damage and one longitudinal crack were observed.

Introduction

In November 1985 twenty-four dogs had been implanted with sets of ETHILON, PROLENE, PVDF and Novafil sutures for a ten year study. In 1990, after five years, explants from 5 beagle dogs were described in "TEN YEAR IN-VIVO STUDY SCANNING ELECTRON MICROSCOPY FIVE YEAR REPORT" by Elke Lindemann. The next explantation, after 7 years, was to start in June 1992. However, after 6 years and 10.5 months dog #1995 died prematurely. The microscopical examination of those explants was described in "TEN YEAR IN-VIVO STUDY: SCANNING ELECTRON AND LIGHT MICROSCOPY INTERIM REPORT ON DOG #1995 AFTER 6 YEARS, 10.5 MONTH, SR# 33788 and are included in the conclusion section of this report. In June of 1992 after 7 years, sutures were explanted from another set of 4 dogs. This report presents the results of the light and scanning electron microscopical examination of those explants.

¹SR33853, SR34003, SR34066, SR34180

Experimental

Four dogs had been implanted in November 1985 with the following 5-0 sutures:

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dog 2001	PVDF	ETHILON	Novafil	PROLENE	PROLENE	Novafil
Dog 2007	PROLENE	Novafil	ETHILON	PVDF	PVDF	PROLENE
Dog 2019	Novafil	PROLENE	PROLENE	PVDF	ETHILON	ETHILON
Dog 2008	ETHILON	PROLENE	Novafil	PVDF	ETHILON	PVDF

Starting in June of this year the above dogs were sacrificed in weekly intervals. Approximately 20cm long sections of the explanted sutures were received in microscopy in glass vials which were kept refrigerated until they were examined.

Also the explanted LC 100 clip with about 2cm of each suture bundle was delivered in the same vial. The clip and the attached sutures were still deeply embedded in the surrounding tissue. These 'not cleaned' sutures were supposed to answer the question whether the process of cleaning and tissue removal might be responsible for an observed cracking. The primary concern of this study was however to examine the long pieces of explanted suture. Most of these specimens were still surrounded with some tissue, fortunately at a level low enough not to obscure examination in the light microscope under transmitted light. It was possible to examine the embedded PROLENE suture where the cracking of the suture was seen through the tissue. For this reason and time constrains the clip-attached sutures were not examined at this time.

To show that the drying and coating with a metal under vacuum, necessary for SEM examination, did not introduce cracking and other surface defects each strand of each long suture was 100% inspected in the Olympus Light Microscope in water. Oil, the usual medium for light microscopical inspection, was not chosen for this examination in order to eliminate surface changes during sample preparation. To cut down on lensing effects of the curved suture, the samples were photographed in polarized light using a 10x phase condenser with an ordinary transmitted light 20x objective (a 20x phase condenser was not available). The light diffraction introduced by the phase condenser was enough to allow an easier focusing at the focal plane of the largest diameter. Photomicrographs were prepared at 285x of areas which showed surface changes.

Strands of the suture including the above areas were then prepared for SEM observation in the JEOL JSM 840 AII by coating them under vacuum with gold to provide an electron conductive surface. Photomicrographs were prepared at 500x magnification.

Results

1) LM and SEM of PROLENE suture explants from seven implantation site.

In Figure 1A through 1D one area per site from each of the four dogs is shown in transmitted light. Out of seven sites cracking was found on PROLENE sutures from three sites. Notice the cracks observable through the still adhering tissue in Figure 1A in the suture from site 2.

In Figure 1 and 2 SEM views of areas are shown after most of the tissue had been carefully removed. Again out of seven sites sutures from three sites had areas which showed cracking.

2) LM and SEM of ETHILON suture explants from six implantation sites.

In Figure 3A through 3C sutures are shown from six different sites. Transmitted light allowed visualization of the differences between the intact dyed surface layer and the underlying colorless layers of the suture. In Figure 3A site 5 and Figure 3C site 3 the colorless area had not only lost its dyed surface layer but was abraded to such a degree that a decrease in suture diameter was found.

In Figures 3 and 4 the cracking and abrasion on sutures from all six sites, as observed with the SEM, is shown. Here also the decrease in diameter is particularly dramatic in Figure 3 site 1.

3) LM and SEM of PVDF suture explants from six implantation sites.

Figure 5A through 5C show six sites of PVDF explants as seen with the light microscope. Notice the intact surface on all the sutures.

In Figures 5 and 6 the SEM examination of the PVDF sutures is shown. Only on the suture from one site (Figure 6 site 6) some cracks are found. The surfaces of the sutures from the other five sites show some striations which could be mechanical damage, otherwise the surfaces look intact. The contaminant on the site 4 (Figure 5) suture is tissue which had not been removed completely.

4) LM and SEM of Novafil suture explants from five implantation sites.

Figure 7A through 7C show the Novafil sutures as observed with the light microscope. All surfaces from all sites look undamaged. Figure 7 and 8 show the SEM examination of these sutures. A few longitudinal scratches and cracks were found, see sites 1,2,3 (Figure 7,8). Also on the site 2 suture (Figure 8) still adhering tissue is found.

5) Degradation dependency on implantation site

To probe the question as to whether one implantation site might be more or less stressful towards the suture, a comparison was made of the six sites.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dog 1995	ETHILON cracks	PVDF	PROLENE cracks	Novafil	Novafil cracks	ETHILON cracks
Dog 2001	PVDF	ETHILON cracks	Novafil	PROLENE	PROLENE cracks	Novafil
Dog 2007	PROLENE	Novafil scratch	ETHILON cracks	PVDF	PVDF	PROLENE cracks
Dog 2019	Novafil scratch	PROLENE	PROLENE	PVDF	ETHILON cracks	ETHILON cracks
Dog 2008	ETHILON cracks	PROLENE cracks	Novafil cracks	PVDF	ETHILON cracks	PVDF cracks

The only site, in the 5 dogs of this study, from which sutures were explanted that showed no surface damage was site 4. However, of those five sutures three were PVDF and one was Novafil. Those are the sutures that showed only marginal surface changes in this study. Therefore this observation can be discounted.

Elke Lindemann

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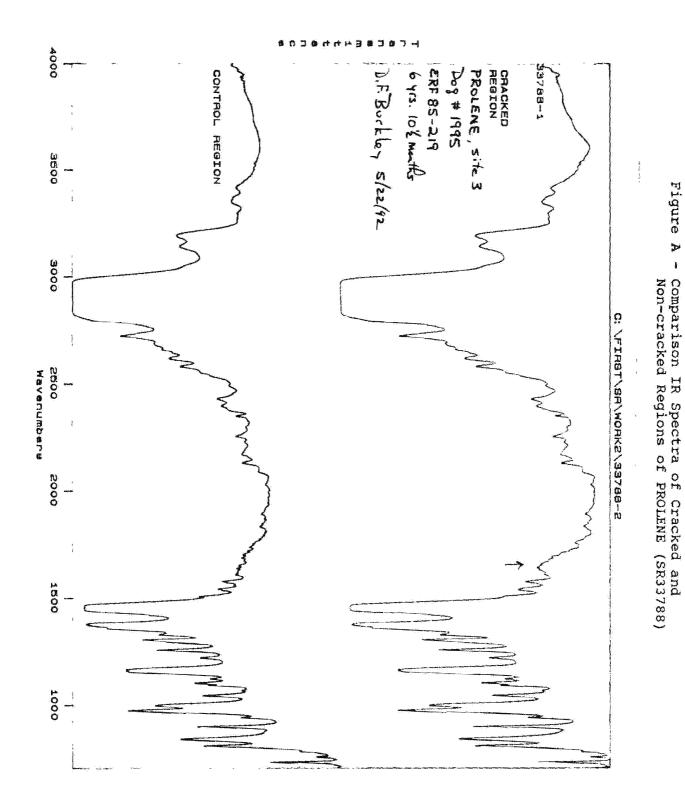
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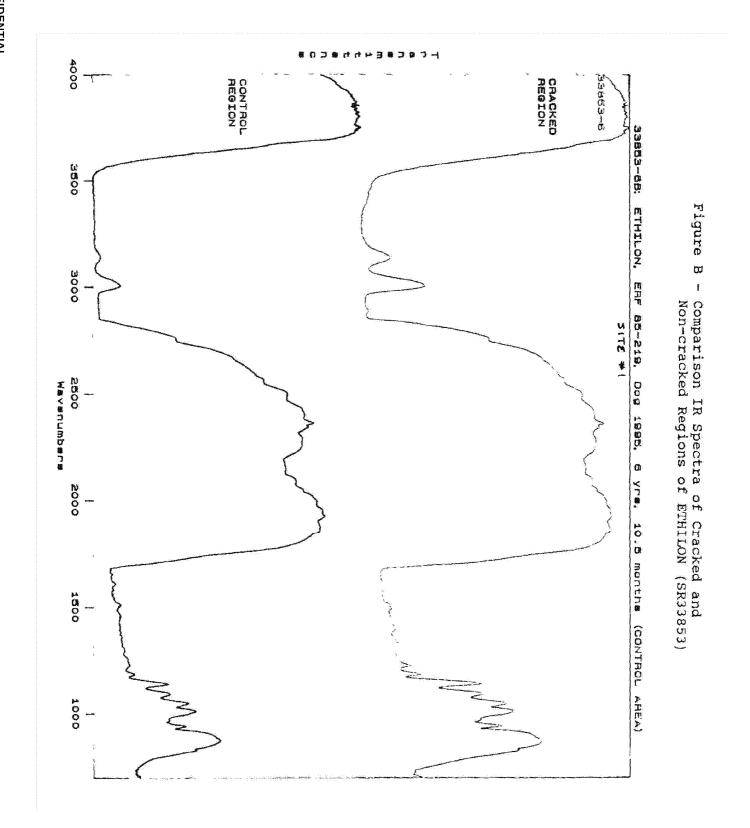
Daniel F. Burkley

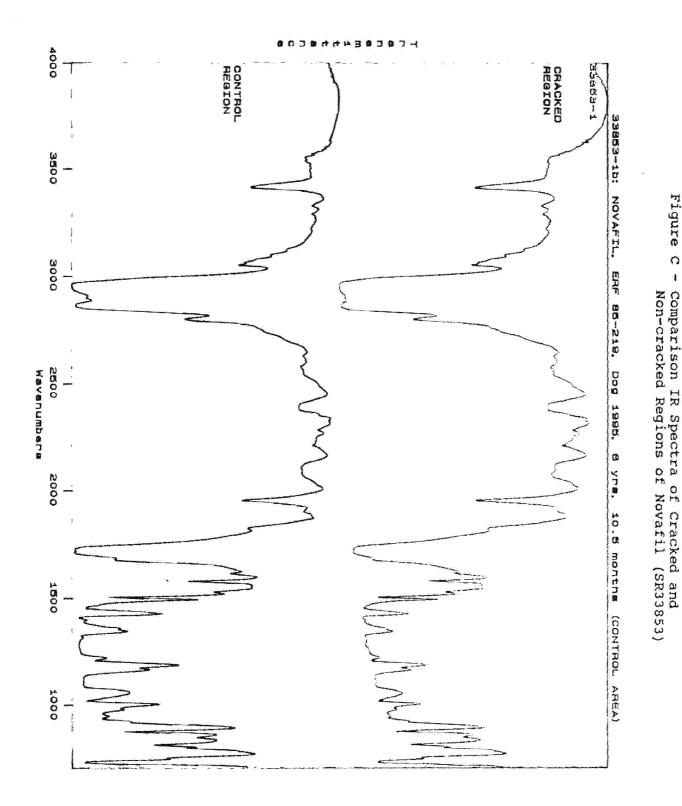
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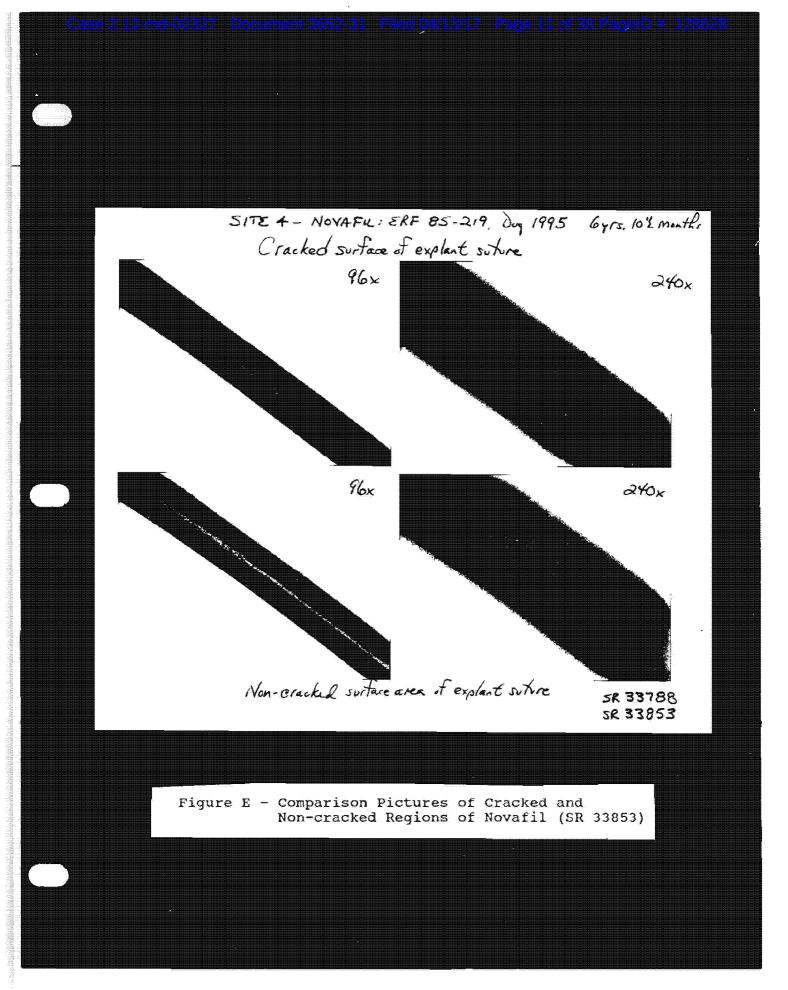
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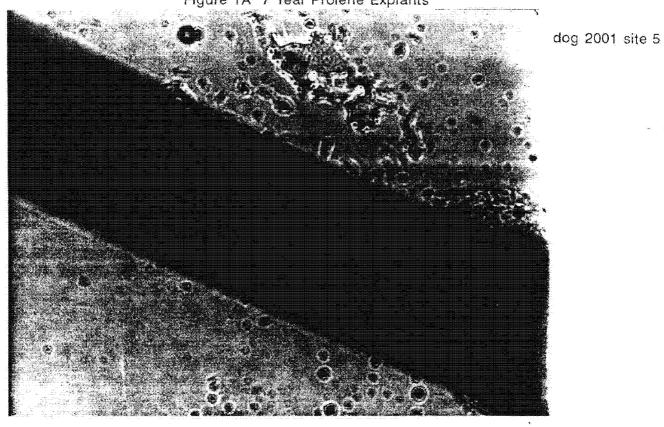


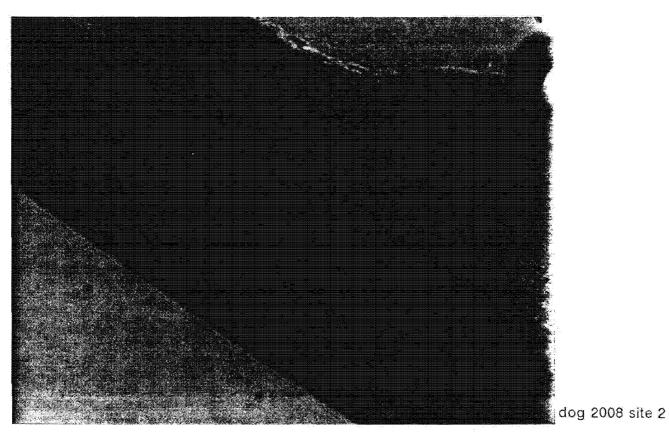






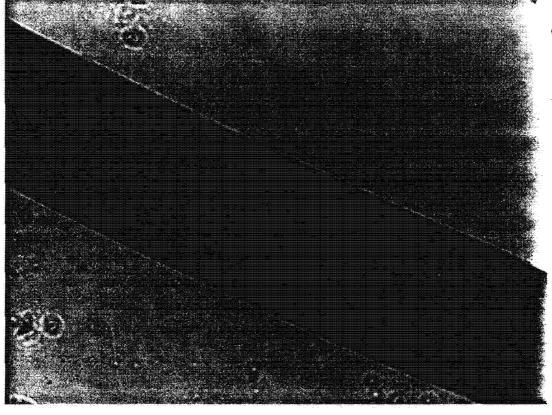
Case 2:12-md-02327 Document 3652-31 Filed 04/13/17 Page 12 of 38 PageID #: 128629 Figure 1A 7 Year Prolene Explants



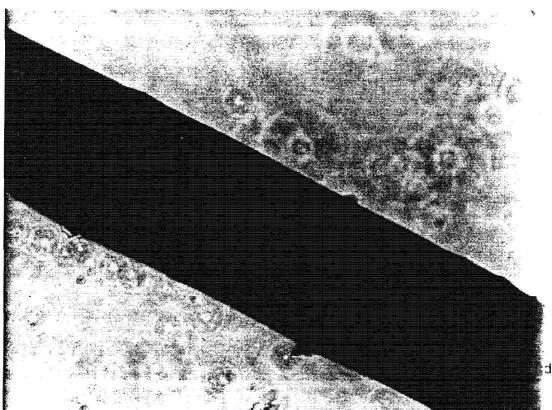


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Figure 1B 7 Year Prolene Explants

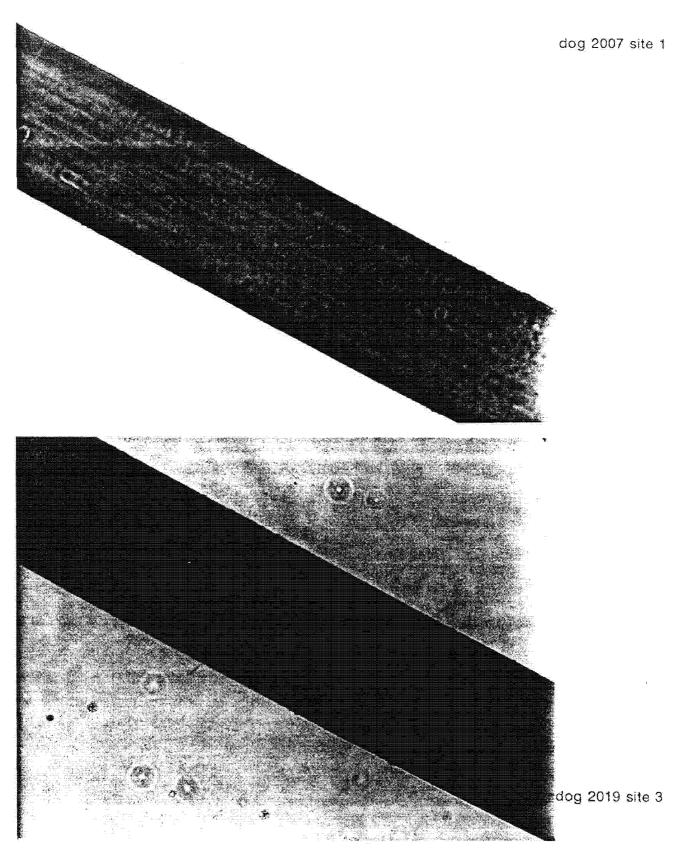


dog 2007 site 6



dog 2019 site 2

Figure 1C 7 Year Prolene Explants



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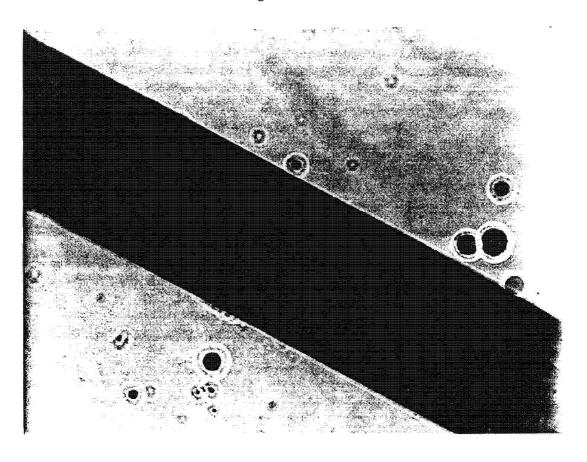


Figure 1 7 Year Prolene Explants

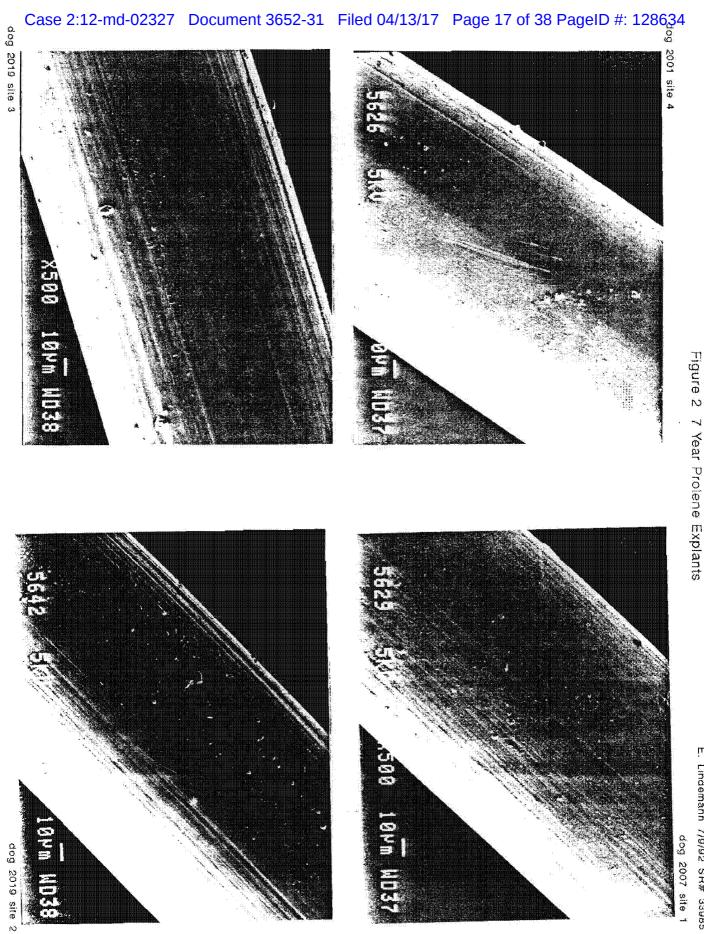
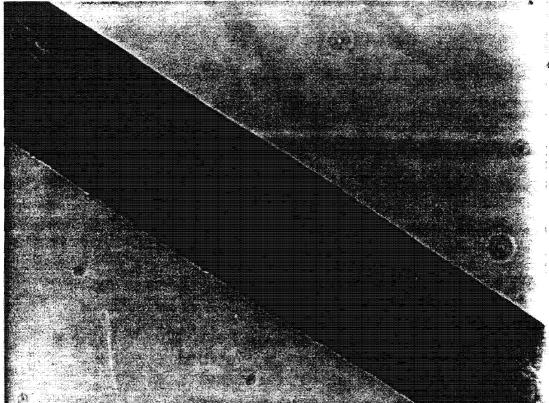
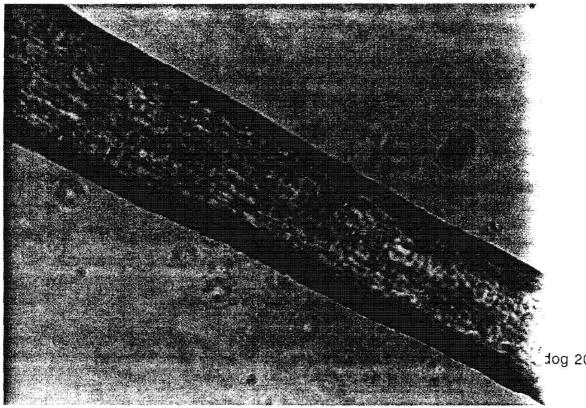


Figure 3A 7 Year Ethilon Explants

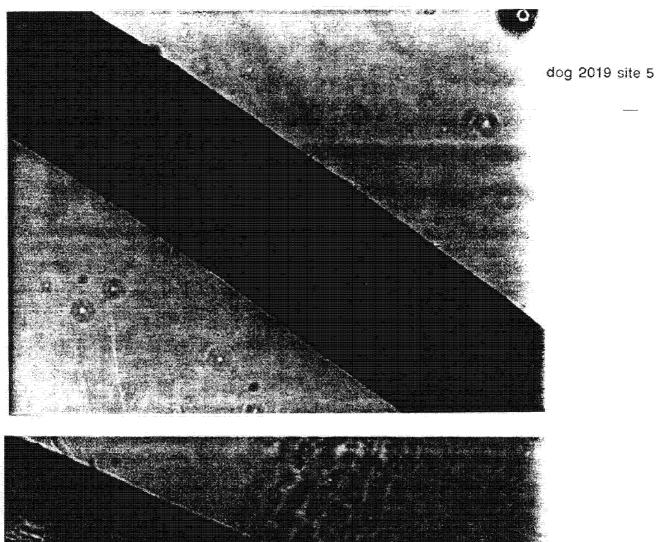


dog 2019 site 6



dog 2008 site 5

Figure 3B 7 Year Ethilon Explants



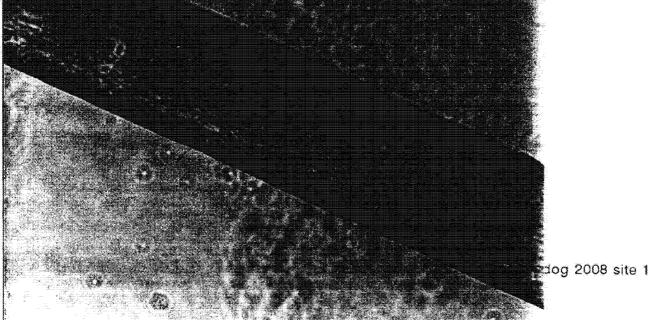
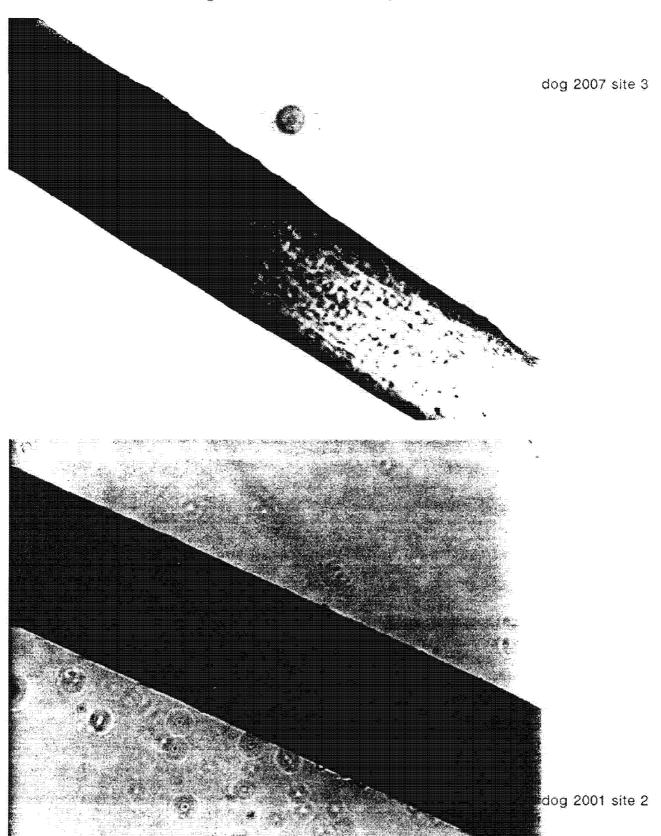
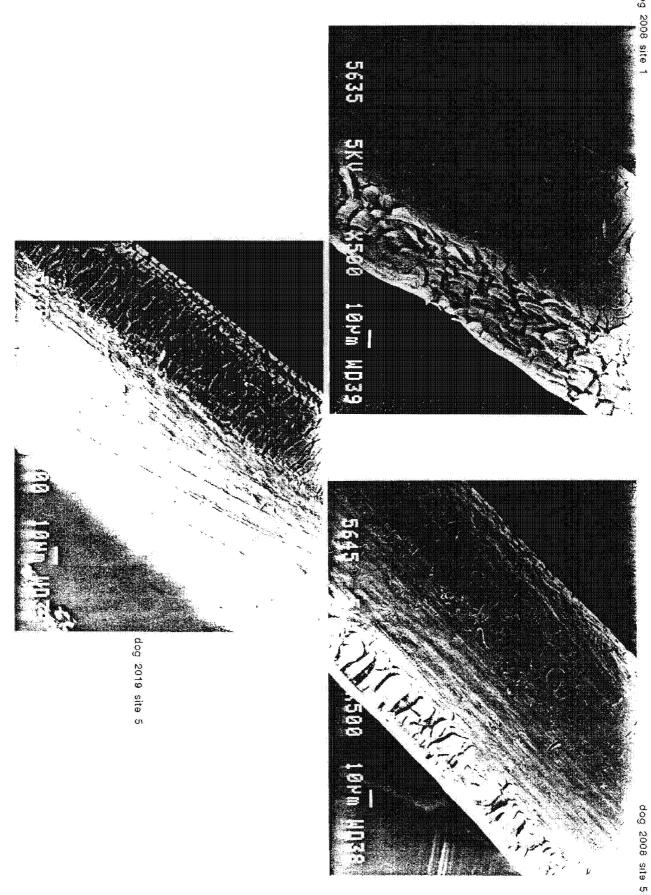


Figure 3C 7 Year Ethilon Explants



E. Lindemann 7/9/92 SR# 33985*



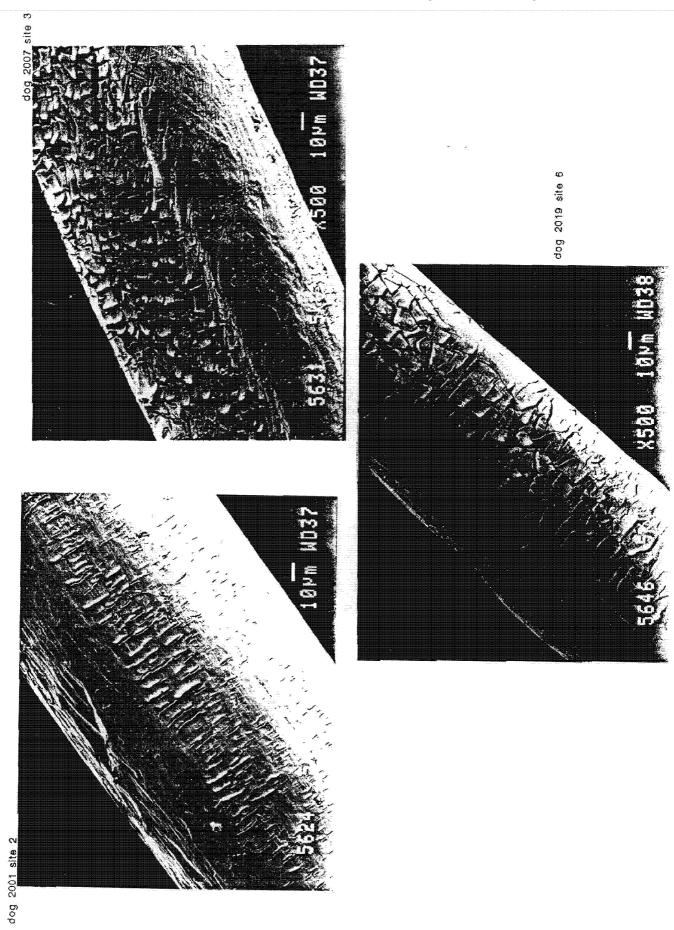
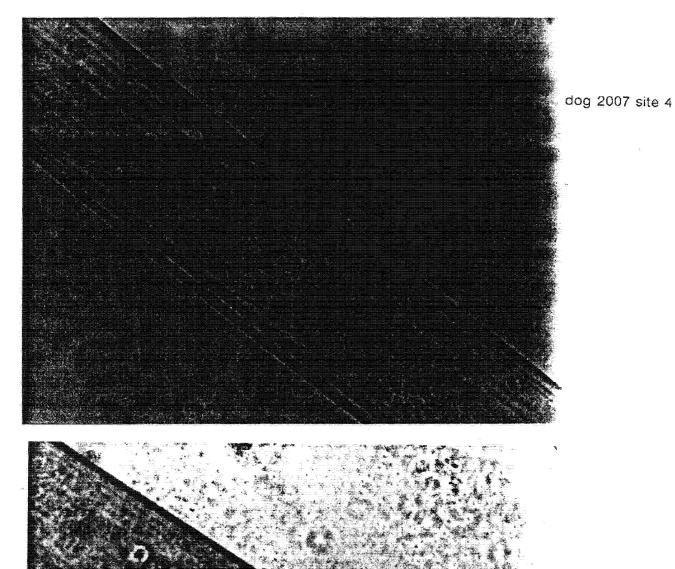


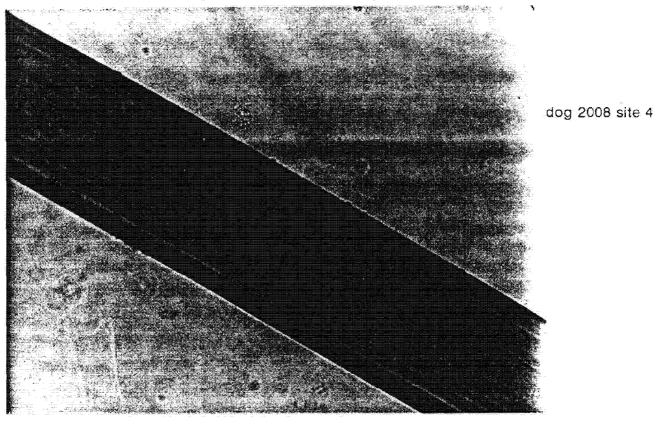
Figure 5A 7 Year PVDF Explants

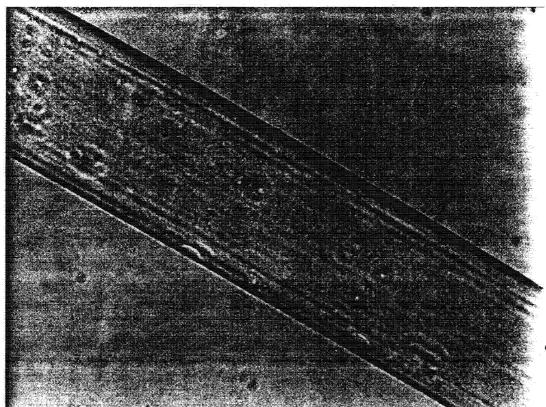


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dog 2001 site 1

Figure 5B 7 Year PVDF Explants

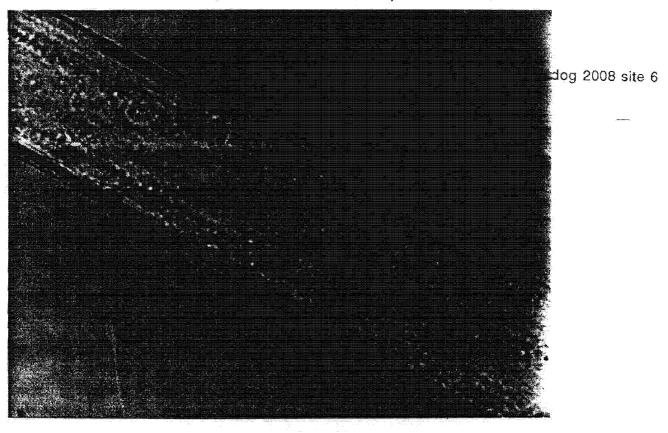


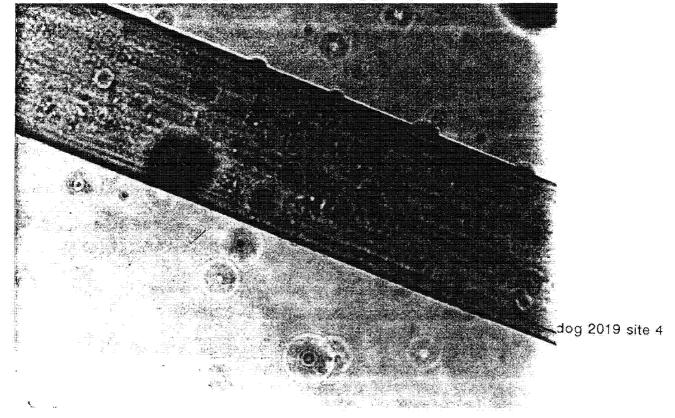


dog 2007 site 5

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Figure 5C 7 Year PVDF Explants





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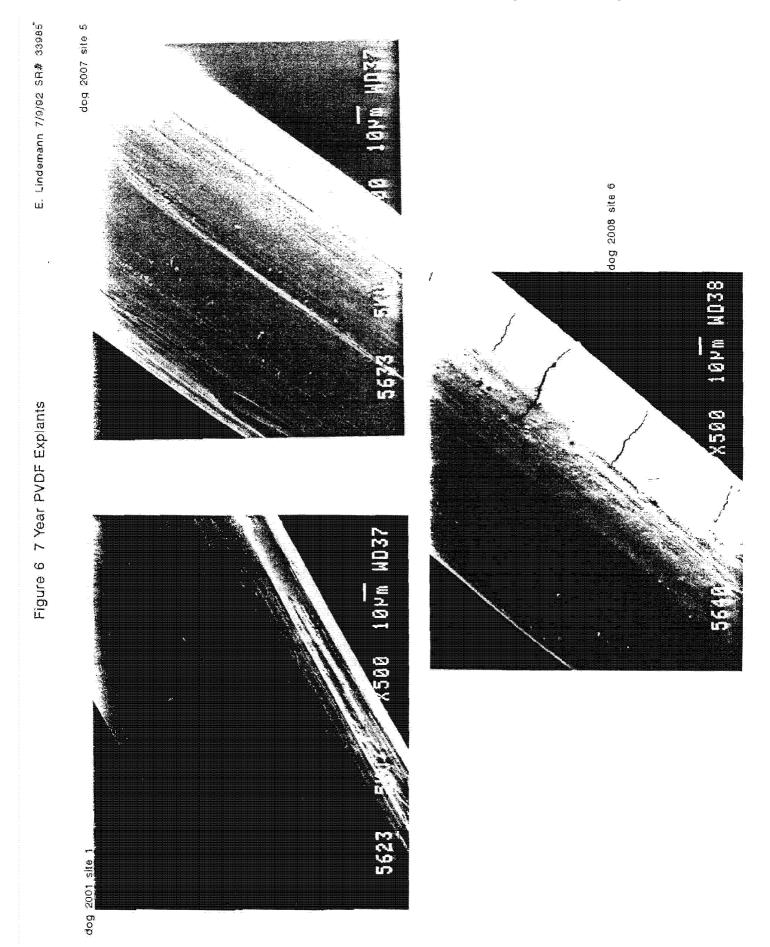


Figure 7A 7 Year Novafil Explants

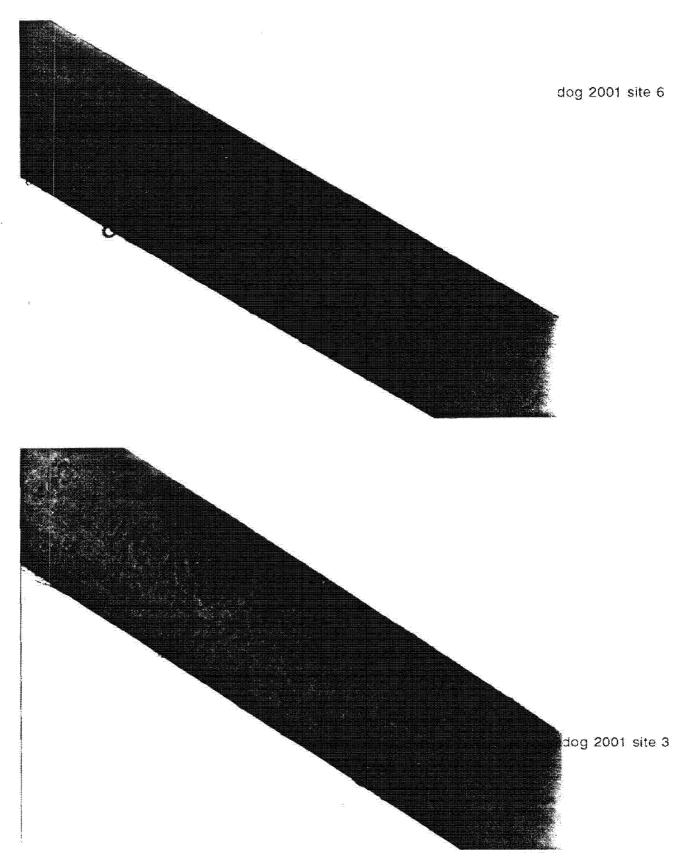
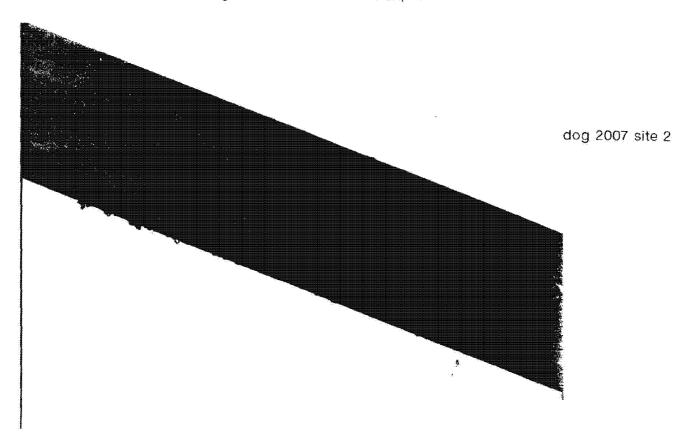


Figure 7B 7 Year Novafil Explants



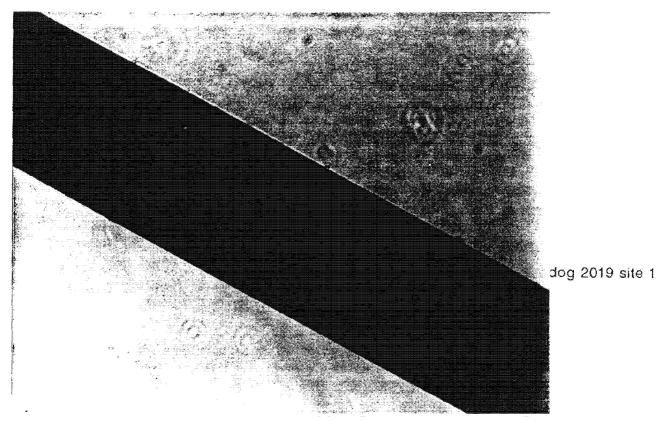
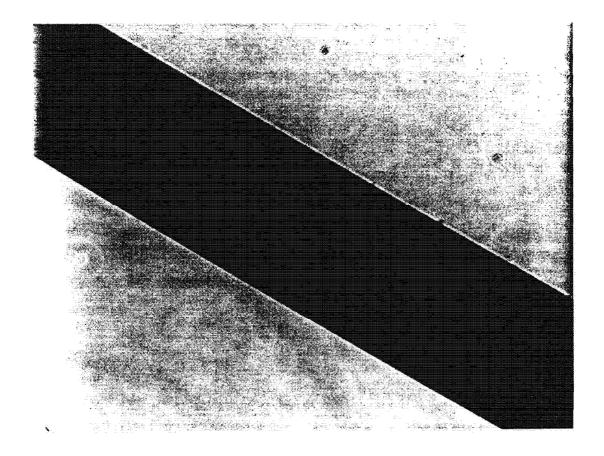
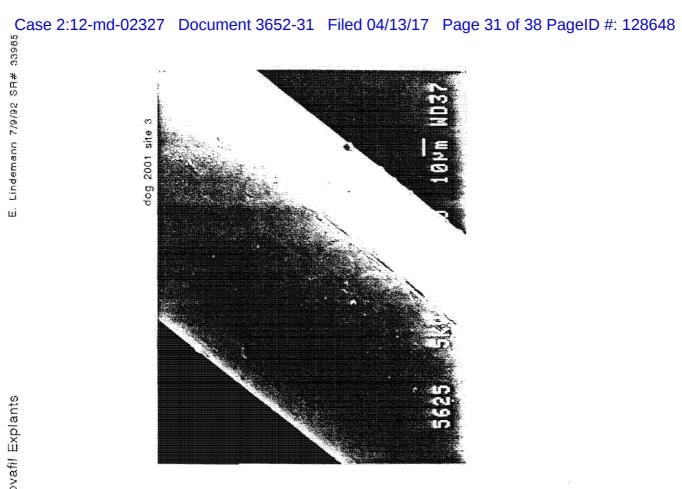


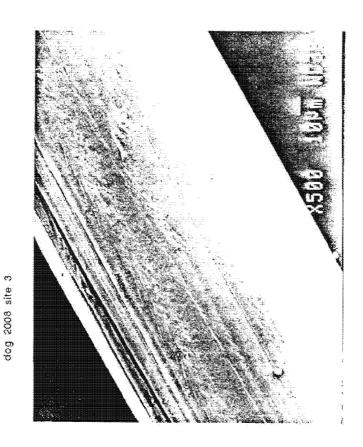
Figure 7C 7 Year Novafil Explants

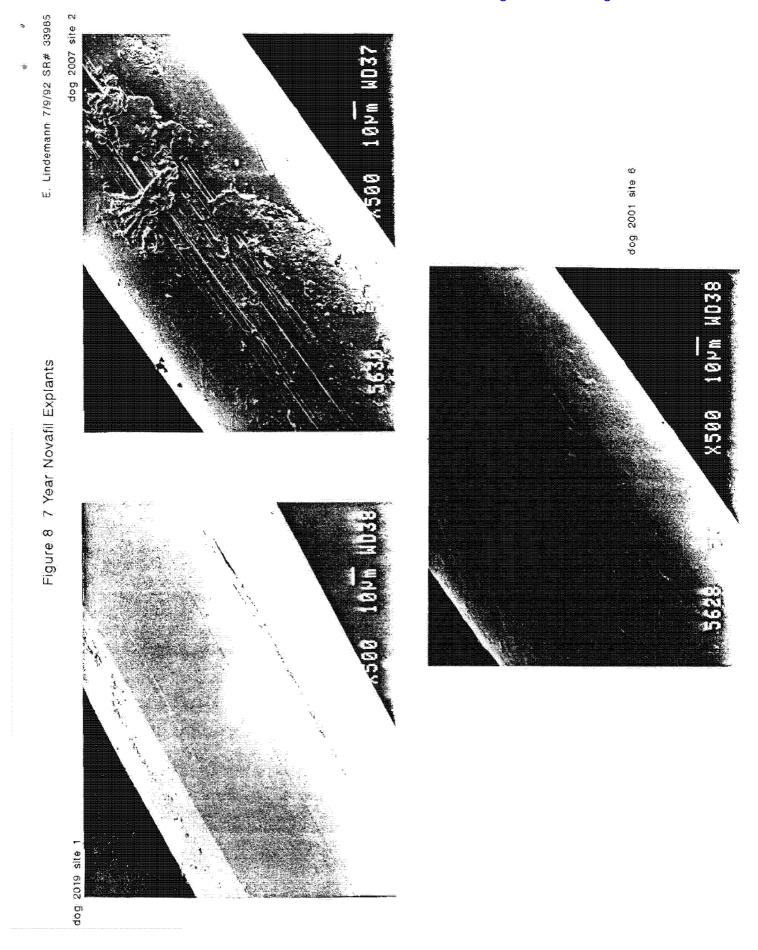
dog 2008 site 3



Lindemann 7/15/92 SR# 33985







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SAMPLE CONTROL # ---3028

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ETHICO N.INC.

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ANALYTICAL CHEMISTRY DEPARTMENT

SERVICE REQUEST NO. ANALYSIS REQUIRED	NALYTICAL SUPERVISOR
33853 GPC, IR Identity	
identify. From the R spentre general, the	exploit sangles are identified as:
ERF85-214 SITE 1 = ETHICON (Nylon 6), ERF85-214 SITE = PVDF (p./yvinyliden +	ක්කාල විවර්ධන 👔 යා යන්නීම සංවර්ධ ප්රක්ණේ ර
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SITE 6 = ETHILON (Nylon 6)	
	a saa gaa saa eesaa eesa
1 sm/c	B 6/15/92
- Tille	(Roble 3385)
Sample IV/dlg Novofil(Ste4) 0.73	A AMERICAN A
Novofil (sites) 0.82	a
ETHILON(site 1) 1.25 ETHILON (site 6) 1.24 Robin R Ray	lande NB 2519-31
Insufficient sample for prolene IV's	1
Sample MW MN MW	MN
Novatil (sites) 32,000 18,000 1.8. Novatil (sites) 32,64,800 18,500 25	Eu 1.8
Eth[lon(site) 62,000 30,000 2.1	
EthILON (site 6) 61,000 31,000 2.0	John Relational in 2019-20
althought there was insufficient on is	John Klay ama NB 2519-34
GPC of Dog# 1995 Site 3 was Compared to	a 4/0 Prolese suture
HW MN N	
Dog#1995 Site3 327,000 59,000	A -ALE
Current 4/0 Prolene 324,000 60,000 Results indicate no degradation has	taken place EPM 2362-94
	The street of th
AMALYST SIGNATURE / DATE / REFERENCE	
SUPERVISOR SIGNATURE DATE ANALYTICAL DEPEMANAGE	R ₂ DATE

J6542

ANALYTICAL CHEMISTRY DEPARTMENT

ANALYTICAL CHEMISTRY DEPARTMENT

34180

REQUESTOR	DEPARTMENT EXT.	DATE SUBMITTED	PROJECT NO.	REQUESTOR'S MANAGER AUTHORIZATION
V. AGARWAL	64523 X2209	Tuly 27 92	16102	
(DOG-2019) (7 YEA				
1. Prolene Site 2 L. ETHILON SIKE 3. ETHILON SIKE	Dog # 201	gilles (IR) NMR MS	GC GPC DS	POSE C OM %; PPM A HSM 0, H; O ETO A SPM DYE MONO IA EDXA CRYST COMP
5 PVDF Site 4	Jamples for Prolene BSR SUPERVISORIANALYSI MU	o year study	Ĭ	an poermented
0 CONTACT REO.	BUR	KLEY DEMANDED		NÖ SAMPLES
TEST REPORT Samples pro	epaved as hot-pressur	O films usin	g the hot si to Novafil	kje:
, m	SITE 2: IR spectrum	corresponds	to PROLENE	
	SITE 3 2 4 4	de se	PROLENE	
	SITE 4: "	(s gor	PUDE	
	SITE S: " "	xx w	ETHILON	
	SITE 6: " "	لاند مبر	ETHURN	
		Proper 1. 0	E INCILON	1 amt & g 8/5/92
monffecer	it sample for prol	me IV		Junt 2 2 1 0/3/45
SAMPL IV	dis			0 .
ETHILDN sites 1.	00			
	16	n (n		
NOVAFIL SITE!	.87 Robin RK	alone in	3 2519-69	
D. W. +	a la palaca		2011 - 1	
NOUNFIL SITE 1 O Shaufficient so SAMPLE 1	III MAI	Return India		
ETHILON SITES (MAIC MARK	24		
1		3.3		
ETHILON site 6				*
Novatil siel.	32,000 13,000	2.4		
	Kobin Mil	ay/co Ne	32519-11	
	MW Mr.			
Current Prolene 4/0	324,000 60,00	0		7-28-92 2
Dog #2019 Site 3	331,000 64,00			
Dog# 2019 Site2	332,000 57,00			
Dog# 2019 Site2			REF IP	£4. 34180
Comparism of Typean , no molecular weigh	digradition	ment ment	256	fl 34180 2-94
1 1		1 0		
ANALYST TO	STATE ANALYST O PAL	1/1/1/2)	DATE SECTION	MANAGER DATE
ANALYST/SUPERV/SOM	DATE ANALYST/SUPERWISON	wax 1	PATE DEPT. MAN	JAGER DATE
/ Leugene muse	10/9/92 Caugene W	use 4	1/21/12	or many or an area of the contract of the cont
ÉH-10.206 (Nev. 4/85)	AKAZYTICAL CH	EMISTRY DEPT CO	JPY'	

Case 2:12-md-02327 Document 3652-31 Filed 04/13/17 Page 37 of 38 PageID #: 128654

SAMPLE CONTROL# 2261

ETHICO N.INC.

34066

ANALYTICAL CHEMISTRY DEPARTMENT

REQUESTO	Rossial and the control of	DEPARTMENT	EXT	DATE SUBMITTED	PROJECT NO.	REQUESTOR'S MANAGER	IAUTHORIZATION
V. A	GARWAL	64523	2205	July 2'92	1610	2	
7 Yea Size	rentification, special st rexplant San 5-0 (1) Pro # 2008 (2) Pr	uples from liene Site# VDF Site#	- 10-Year 1 2 BSR sti	rolendir	LC XRD WET DEN	OSC (OM)	PPM H ₂ O ETO MONO COMP
SAMPLE D	(3) E	VDF SK	18 77 44 611	JOVAFIL S	ite #3	¥	
O RETU	HN I	SUPERVISORIANALYS MCV of Her Burne		THILON .			SAMPLES
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	hit stege, for		R examina	Hen.	Hanna de la compania del la compania de la compania del la compania de la compania del la compania de la compan		
	SITE ZE PR	grent : "	46 46		• • • • • • • • • • • • • • • • • • •	polypapyline	
	SITE 3- M SITE 4- PU	ΔF :	* * * * * * * * * * * * * * * * * * *			ly betylene traphthal at polyviny lidene I luo	rid
	SITE 5 - ET	OF "	AN A	a v anazara		Nylin 6 Dilyving lideau Floor	
all	IR spector veri	fy the idea	sty I the s	7/9/92	$I \setminus I \cap I$	B.)	C. au., Service le le color de la service de la legislation de la
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ETHIL Nova F	$0N^{+}$ # D $0N^{+}5$ 1.6 i.L = 3 0.	19 Cm		e 10 320	4,000	53,000 2560	ener monther the
SAMI	msufficient.	sample for MW	Apolehe NN	MW/MN	rwy by a rec 7*	gr sa nagy jamen angganeman gr sa na jaganaga ng mpinasa nakaka	angeren seenen selegi e Para personen Albertag av det 120 serenen seen seen
IETHI	LON site \$5	53,000 -6 59,000 :	28,000	2.0		७ -५स-	• # "•
Novaf	il site #3.	32,000 Ri	18,000 bin R. Ray	and No	13 2519-5.	2 7-2-5	72
conclusi	onsicomments: parism of current gadatton of 7	t pulene 4/c prefplant	Stitue in	distes no s	significant REF	1R LL 34066	
ANALYST	TAR	TIME ANDY	om R Rui c	Mex	9/21/92	ION MANAGER	DATE
EL 40-205 FEA	SUPERVISOR) GUE MUSE 4/851	10/9/92 G	STISUPERVISOR	MICTOV NEDT	9/21/12	MANAGER	DATE

ACCESSION 85-219 PROJECT NO. 16102

EXPLANTATION PROCEDURES and SAMPLE DISTRIBUTION

Notify the following people of upcoming explant dates:

Nancy Myirski, x2743: Microscopic inspection - someone from her group will come to inspect the sutures under the dissecting scope under the hood. Samples should be placed after dissection from dog into saline-moistened paper towels labelled with the ERF acc. no., dog no., site no., suture type and date.

(Ann Leibold was inspector @ 2 yr. time period, 6/87)

Frank Schiller, x3040: SEM - An Analytical Chemistry Service Request form must be filled out and accompany each set of samples.

Put the sample control number on the top left corner of the sample label. Make one copy for our file and one to send with the samples. Mail original to Dr. A. Melvegar. Label samples the same as for above.

Implantation (Stef in Don?)

Kevin Sullivan, x2997: Instron - Submit samples after the microscopic inspection, while moist. Fragments are saved in their respective towels for next tests. Refrigerate if there will be a delay between inspection and instroning.

Gene Muse, x3046: Molecular weight - Deliver moist suture fragments after Instroning.

After testing he will deliver samples to Dan.

Dan Burkley, x3048: I.R. - Receives samples from Gene. Will discard samples when testing is completed.

Explant samples in consecutive order. Dissect both LC100's (dorsal and ventral) from surrounding connective tissue, carefully stripping tissue from the suture surface. Cut one of the LC100's off the sutures at the clip and gently pull the suture bundle through the tissue by gripping the remaining LC100. When free of tissue, moisten with saline and separate one strand from the bundle. Place this strand into a large (15 ml) red-top tube filled with sterile water and labelled as described above. The other 5 strands per bundle are placed in moistened paper towels labelled as described above. The single sutures in tubes are submitted for SEM and the remaining strands are inspected microscopically and tested on the Instron, etc. as described above.

* 2 request forms perdog: - 1 for 52M + 0M + 1R nucroscopy for the samples going to J. McVery Have JOP sign each + 1 for 1R, EPC + IV for the send to A. Melvegar. fragments going to g. Muse + D.

CONFIDENTIAL SUBJECT TO STIPULATION AND ORDER OF CONFIDENTIALITY